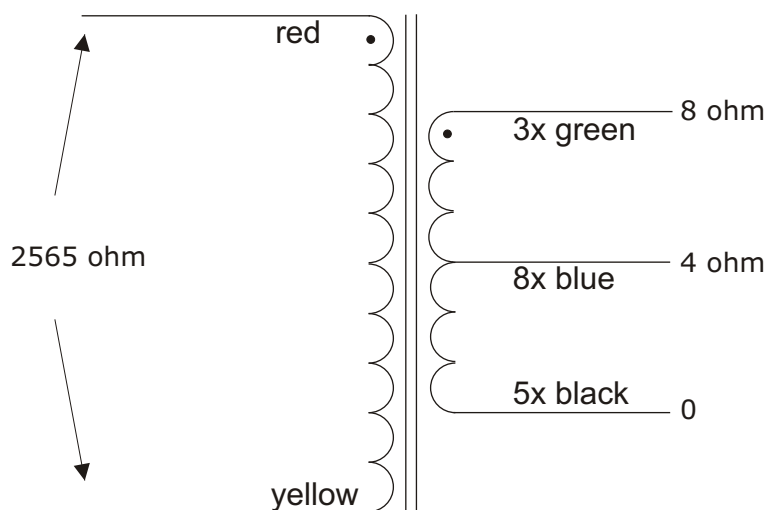
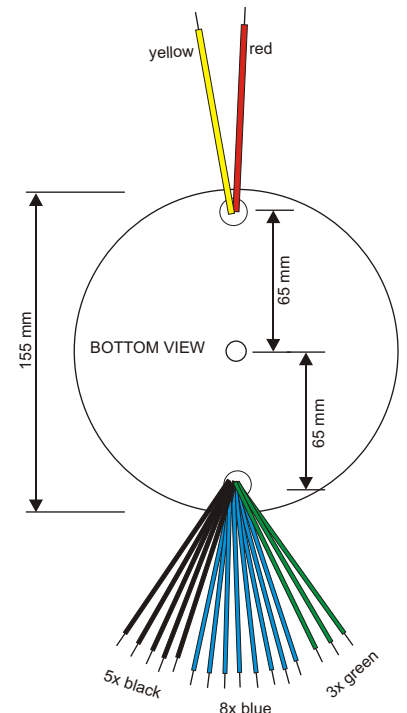


WIDE BANDWIDTH LOW LOSS TOROIDAL SINGLE ENDED OUTPUT TRANSFORMER

DESIGNED BY
VANDERVEEN

TYPE & APPLICATION	:	VDV-6025-SE	
Primary Impedance	:	R _{aa} 2.565	[k]
Secondary Impedance	:	R _{ls} 4	[]
Turns Ratio N _p /N _s	:	Ratio 2.5324	[]
-1 dB Frequency Range [Hz] - [kHz]	:	f _{lf} 15.281	f _{hf} 17.773
-1 dB Frequency Range [Hz] - [kHz]	:	f _{l1} 6.518	f _{h1} 40.305
-3 dB Frequency Range [Hz] - [kHz]	:	f _{l3} 3.317	f _{h3} 78.29
Nominal Power (1)	:	P _n 30	[W]
Full Power Bandwidth Starting at	:	f _{pnom} 20	[Hz]
Total Primary Inductance (2)	:	L _p 21	[H]
Primary Leakage Inductance to sec.	:	l _{sp} 6.3	[mH]
Effective Primary Capacitance	:	C _{ip} 0.75	[nF]
Saturation Primary Current	:	2 I _{dc} 305.871	[mA]
Total Primary DC Resistance	:	R _{ip} 47.5	[]
Total Secondary DC Resistance	:	R _{is} 7.0 ⁻³	[]
Tubes Plate Resistance	:	r _p 0.48	[k]
Insertion Loss	:	l _{loss} 0.087	[dB]
Q-factor 2-nd order HF roll-of (5)	:	Q 0.366	[]
HF roll-off Specific Frequency (5)	:	F _o 185.99	[kHz]
Quality Factor = L _p /L _{sp} (5)	:	QF 3.333.0 ³	[]
Quality Decade Factor (5)	:	QDF 3.523	[]
Tuning Factor (5)	:	TF 7.081	[]
Tuning Decade Factor (5)	:	TDF 0.85	[]
Frequency Decade Factor (4,5)	:	FDF 4.373	[]

- (1): calculated and measured under the conditions of applying 0.5*I_{dc-sat}
(2): 132 Volt 50 Hz measurement over the total primary winding
(3): calculated and measured at 1 Watt in R_{ls}; r_i and R_{ls} are pure Ohmic
(4): defined as FDF = log(f_{h3}/f_{l3}) = number of frequency decades transferred
(5): ir. Menno van der Veen; Theory and Practise of Wide Bandwidth Toroidal Output Transformers, 97-th AES Convention San Francisco, preprint
(C): copyright Vanderveen 1997, Version 1.3; design date 2-7-07; test



30 Watt single ended power
Primary impedance 2565 ohm
Power bandwidth starting at 20Hz
Height 89 mm
Diameter 155 mm
Weight 6.3kg
All leads solid and approx 200mm long
Fully potted in aluminium black textured shell



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Dec-2010

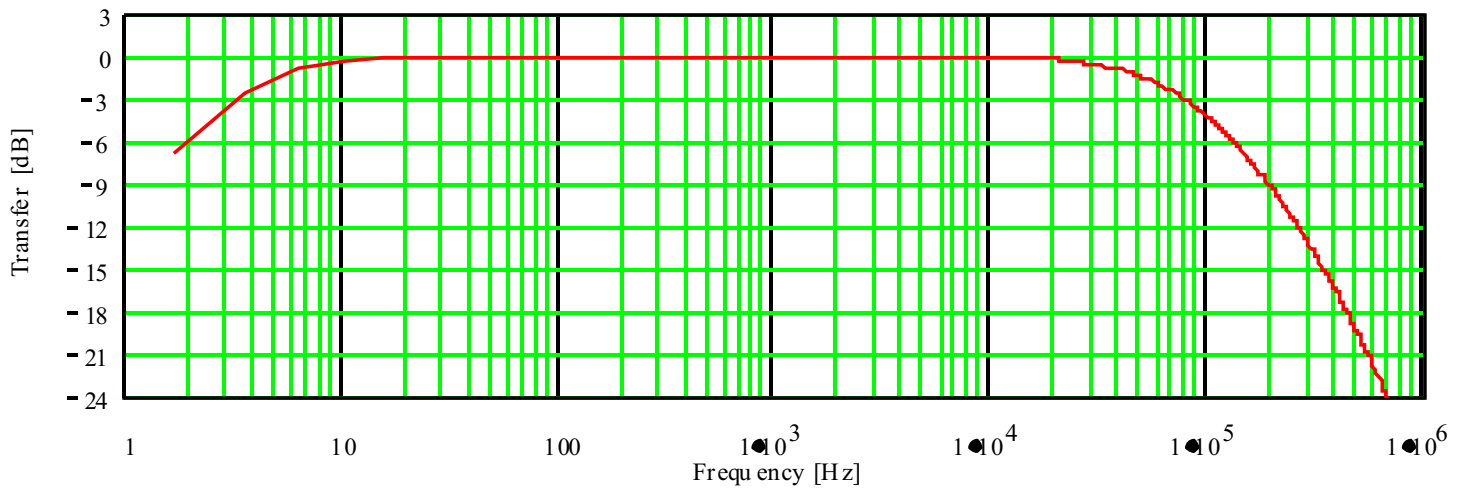
VDV6025SE

WIDE BANDWIDTH TOROIDAL
SINGLE ENDED
TUBE OUTPUT TRANSFORMER

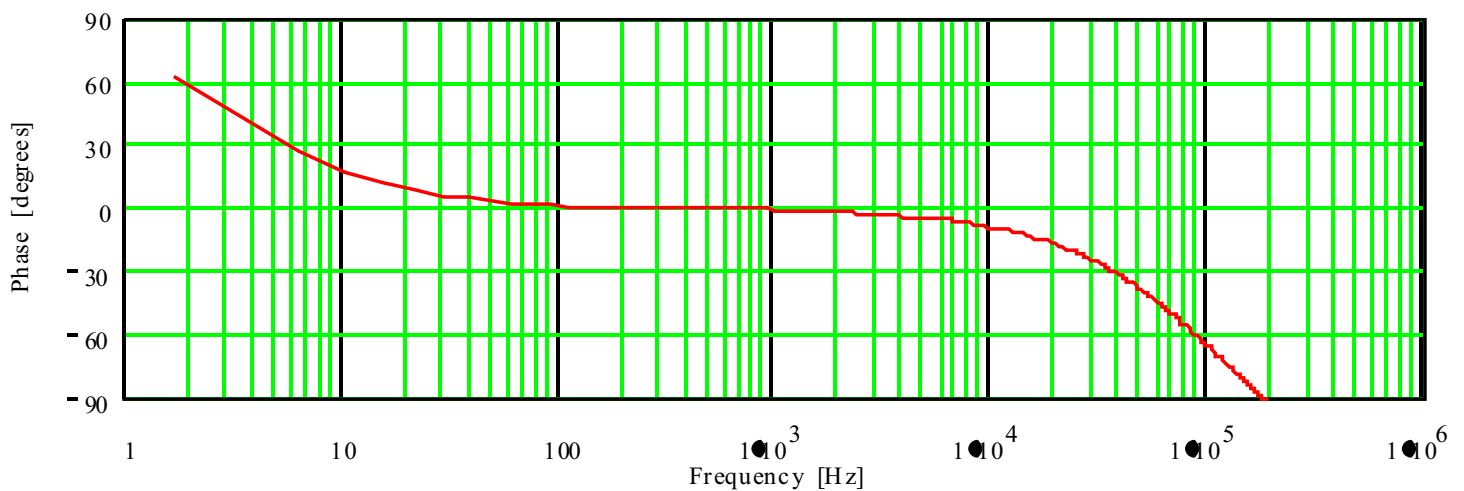
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WIDE BANDWIDTH LOW LOSS TOROIDAL SINGLE ENDED OUTPUT TRANSFORMER VDV-6025-SE

[dB] Frequency Response; Vertical: 3 dB/div; Horizontal: 1 Hz to 1 MHz (3)



[degrees] Phase Response; Vertical: 30 deg./div; Horizontal: 1 Hz to 1 MHz



[degrees] Differential Phase Response; vert. 30 deg./div; hor. 1 Hz to 1 MHz
See: W.M.Leach, Differential Time Delay.; JAES sept.89 pp.709-715

